

MODELS: General Dynamics (Consolidated-Vultee) V-1A Special, 8 PCLM

T.C. NUMBER: 2-539

Engine	Wright Cyclone SR-1820G-5 (See NOTE 4)
Placard limits	Maximum continuous 34.5 in. Hg., 2100 rpm (850 hp) Take-off (one minute) 40 in. Hg., 2200 rpm (1000 hp) (High ratio 10:1 above 8000 ft.) Maximum continuous 35 in. Hg., 2100 rpm (775 hp)
Propeller	Controllable metal, constant speed (Hamilton Standard hub 3D40, blades 6101-6, low pitch setting 11-1/2 degrees) 245 lbs. (-54) (level position ground clearance 12 in.)
Placard speeds (T.I.A.S.)	Level flight or climb - 219 mph (190 knots) Glide or dive - 266 mph (231 knots) Flaps extended - 155 mph (135 knots)
Fuel	306 gallons - 6 wing tanks, right and left: 2 main 45 lbs. each at 103 gallons each (+115); 2 auxiliary 18 lbs. each at 27 gallons each (+110); 2 auxiliary 18 lbs. each at 23 gallons each (+110). (See NOTE 1)
Oil	19 gallons (single tank 30 lbs. (-7) includes Thermoplate AL-75).
No. passengers	6 (+84, +140, +173)
Baggage	450 lbs. (dual compartment rear of cabin) (+238.5)
Maximum weight	8600 lbs.
C.G. range	(+78.1) and (+98.2) (level on base of cabin windows)
Certification basis	Aero. Bulletin 7A, Section 3
Serial Nos.	25 only eligible (See NOTE 4)

EQUIPMENT: (Datum is firewall)

Class I:			
1.	Exhaust collector ring and air heater	75 lbs.	(-13)
2.	(a) Engine ring cowl, outer	31 lbs.	(-30)
	(b) Engine ring cowl, inner	20 lbs.	(-15)
3.	Oil radiator (UAP 9 in.)	15 lbs.	(-15)
4.	Starter (Eclipse E-160)	34 lbs.	(-13.5)
5.	Generator (Eclipse D-1)	20 lbs.	(-20)
6.	Battery (Exide 6-XT-13)	68 lbs.	(-5)
7.	Landing lights in wing nose (SEM)	20 lbs.	(+50)
8.	Flares and holders (two 3 minute)	43 lbs.	(+163)
9.	(a) Pressure fire extinguisher (Lux No. 5)	10 lbs.	(+6)
	(b) Extra hand fire extinguisher (1 quart)	6 lbs.	(+32)
10.	Heater and ventilating system	50 lbs.	(+82)
11.	(a) 30x13-6 wheels with brakes (Goodyear)	62 lbs.	(+75)
	(b) 30x13-6 heavy duty tires (Goodyear)	80 lbs.	(+75)
	(c) Shock struts (ADC 23050)	54 lbs.	(+75)
12.	(a) 16x7-3 tail wheel	10 lbs.	(+381)
	(b) Tail wheel shock, strut (ADC 23080)	9 lbs.	(+196)
13.	Container and one gallon water	15 lbs.	(+42)
14.	(a) Co-pilot's seat	34 lbs.	(+22)
	(b) Dual controls	35 lbs.	(+125)
15.	Cabin rug	10 lbs.	(+140)
16.	(a) Abrasion covers, flap	15 lbs.	(+327)
	(b) Abrasion covers, tail surfaces	20 lbs.	(+296)
17.	(a) Radio (AVT-12)	17 lbs.	(+42)
	(b) Radio (AVR-7C)	49 lbs.	(+42)
	(c) Radio power unit (RCA)	32 lbs.	(+84)
	(d) Radio compass (Lear)	9 lbs.	
	(e) Radio antenna, belly (+296), fixed (+290), trailing (+319)	6 lbs.	(+20)
	(f) Radio instrument panel		
18.	Wing trailing edge split flap, electrically or manually operated, 30 amp. fuse required		
19.	(a) Elevator equipped with tab		

- (10 degrees) and balance weight
- (b) Rudder equipped with tab
(10 degrees) spring type bungee
and 3 lbs. balance weight
- 20. Lead balance weight in tail cone
(Drawings PS 1342 and 1343) 45 lbs. (+380)

Class II:
200. Miscellaneous items as noted in approved
weight and balance report

Class III:
None.

NOTE 1. In each wing the auxiliary 27 gallon and 23 gallon tanks are inter-connected to form a 50 gallon fuel tank.

NOTE 2. This model same as V-1A (ATC 545) except for change in engines, engine mount, power plant installation, standard weight and items of equipment.

NOTE 3. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook:
(a) Canada
- Landplane
- Skiplane -- not eligible.
(b) All other countries except Great Britain, Australia and New Zealand.

NOTE 4. Serial No. 18 also eligible with the following:
Engine Wright Cyclone R-1820F-52
Placard limits Maximum, except take-off
(Fuel 87 octane 34.5 in. Hg., 2100 rpm (775 hp)
minimum) Take-off (one minute)
39.0 in. Hg., 2200 rpm (890 hp)
Propeller Hamilton Standard hub 3D40, blades 6167A